

# Notice of Allowability

Application No.

10/764,093

Examiner

Mujtaba K. Chaudry

Applicant(s)

CAO ET AL.

Art Unit

2133

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/6/2005.
2. ☒ The allowed claim(s) is/are 21-38.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

ALBERT DECADY  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

### REASONS FOR ALLOWANCE

Claims 21-38 are allowed. The following is an Examiner's statement of reasons for allowance:

Independent claim 1 of the present application teaches a circuit for testing a transceiver, comprising: a test pattern generator generating a first test pattern and a second test pattern; a multiplexer having a first input, a second input, and an output, the first input receiving the first test pattern and the second input receiving the second test pattern; a demultiplexer having an input, a first output, and a second output, the input of the demultiplexer being coupled the output of the multiplexer; and a test result evaluation circuit generating a first signature based on a first data stream generated by the first output of the demultiplexer and a second signature based on a second data stream generated by the second output of the demultiplexer, the test result evaluation circuit comparing each generated signature to a stored signature for determining whether an error has occurred during the transmission of an associated data stream. The prior art of record, namely Yamada, basically teaches a communication circuit fault detector that tests a communication circuit by using a sequence generator to generate a test signal, a memory circuit to temporarily store the test signal, and a multiplexer to multiplex the test signal and an input data signal into the communication circuit. A timing generator drives the communication circuit at a rate higher than the normal communication rate, enabling the data signal and test signal to be sent through the communication circuit simultaneously. A de-multiplexer that de-multiplexes the output signal from the communication circuit into an output data signal and a returned test signal. A comparator that is used to compare the returned test signal with the test signal stored in the memory circuit and generates a result signal indicating whether they match. However, Yamada

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does not teach several aspects of the present application. For example, Yamada does not teach nor fairly suggests the test pattern generator to generate a first and second test patterns and feed them to the multiplexer. Yamada also does not teach nor does fairly suggest each of the particular test pattern to be associated with a signature. Furthermore, it is the Examiner's conclusion that the non-obvious difference between the prior art of record and the present invention is that the present invention improves on the prior art by using a plurality of test patterns with associated signatures to test a transceiver.

Independent claims 30 includes similar limitations recited in independent claim 21 and therefore are allowed as well.

Claims 22-29 and 31-38 depend from independent claims 21 and 30 and inherently include limitations therein and therefore are allowed as well.

Any inquiries concerning this communication should be directed to the examiner, Mujtaba Chaudry who may be reached at 571-272-3817. The examiner may normally be reached Mon – Thur 6:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, please contact the examiner's supervisor, Albert DeCady at 571-272-3819.

  
Mujtaba Chaudry  
Art Unit 2133  
September 27, 2005

  
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